Applicant's or agent's file reference 31550.02 WO International application No. PCT/US20077012573 International application No. PCT/US20077012573 International Fatent Classification (IPC) or both national classification and IPC  G06F 17/00/2006.01)I  Applicant MICROSOFT CORPORATION  1. This opinion contains indications relating to the following items:  Box No. 11 Box No. 11 Box No. 11 Priority date/day/month/year) OI JUNE 2006 (01.06.2006)  1. This opinion contains indications relating to the following items:  Box No. 11 Box No. 11 Box No. 11 Priority OI JUNE 2006 (01.06.2006)  1. This opinion contains indications relating to the following items:  Box No. 11 Box No. 11 Box No. 11 Catalon and EV Dox No. 11 Catalon and EV Dox No. 12 Catalon contains indications and industrial applicability with regard to novelty, inventive step and industrial applicability inventions and explanations supporting such statement Dox No. VI Catalon documents cited Dox No. VII Certain defects in the international application Dox No. VIII Certain observations on the international application	From the	ALENI COOFE	KATION TR	EATY
MICROSOFT CORPORATION  Attention: Sharon Rydberg (sharon-21-2029) LCA, International Patent Department One Microsoft Way, 21/2029  Redmond Washington 98052-6399 USA  Applicant's or agent's file reference  Applicant's or agent's file reference  315650.02 WO  International application No.  PCT/US2007/012573  International application No.  PCT/US2007/012573  International Fatent Classification (IPC) or both national classification and IPC  G06F 17/00/C006.01)i  Applicant  MICROSOFT CORPORATION  1. This opinion contains indications relating to the following items:  Box No. 1. Basis of the opinion  Box No. 11 Priority  Box No. 11 Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  Box No. 11 Non-establishment of opinion with regard to novelty, inventive step or industrial applicability  Box No. V. Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability  Box No. VI Certain defects in the international application  Box No. VII Certain observations on the international application	INTERNATIONAL SEARCHING AUT	HORITY		
	MICROSOFT CORPORATION  Attention: Sharon Rydberg (sharonr-21- International Patent Department One M	icrosoft Way, 21/2029	W INTERNA	RITTEN OPINION OF THE TIONAL SEARCHING AUTHORITY
See paragraph 2 below   International application No.   International filing date (day/month/year)   Priority date(day/month/year)   Oi JUNE 2006 (01.06.2006)				27 NOVEMBER 2007 (27.11.2007)
International application No.   International filting date (day/month/year)   Priority date(day/month/year)   Priority   Prio			FOR FURTHER	ACTION
PCT/US2007/012573   25 MAY 2007 (25.05.2007)   Ol JUNE 2006 (01.06.2006)   International Fatent Classification (IPC) or both national classification and IPC  G06F 17/00(2006.01)I   Applicant   MICROSOFT CORPORATION    1. This opinion contains indications relating to the following items:   Sox No. 1   Basis of the opinion				See paragraph 2 below
International Patent Classification (IPC) or both national classification and IPC  G96F 17/09(2096.91)i  Applicant  MICROSOFT CORPORATION  1. This opinion contains indications relating to the following items:  Box No. 11  Care and a contains indications relating to the following items:  Box No. 10  Box No. 11  Box No. 11  Box No. 11  Care and contains indications relating to the following items:  Box No. 10  Box No. 11  Box No. 11  Care and contains indications relating to the following items:  Box No. 11  Box No. 11  Care and contains indications relating to the following items:  Box No. 11  Box No. 11  Care and contains indications relating to the following items:  Box No. 11  Box No. 11  Care and contains indications relating to the following items:  Box No. 11  Care and contains indications relating items:  Care and contains indications relating items:  Box No. VI  Certain defects in the international application  Box No. VIII  Care and contains indications and IPC  Care and contains and IPC  Care and contains indications and IPC  Care and contains and IPC  Care and contains indications and IPC  Care and contains				
Applicant MICROSOFT CORPORATION  1. This opinion contains indications relating to the following items:    Box No. 1   Basis of the opinion   Box No. 11   Priority     Box No. 11   Non-establishment of opinion with regard to novelty, inventive step and industrial applicability     Box No. IV   Lack of unity of invention     Box No. IV   Lack of unity of invention     Box No. V   Reasoned statement under Rule 43 bis. I(a)(i) with regard to novelty, inventive step or industrial applicability     Box No. V   Certain documents cited     Box No. VII   Certain defects in the international application     Box No. VIII   Certain observations on the international application     Box No. VIII   Certain observations on the international application     Box No. VIII   Certain observations on the international application     Box No. VIII   Certain observations on the international application		25 MAY 2007 (25.0	05.2007)	01 JUNE 2006 (01,06,2006)
MICROSOFT CORPORATION  1. This opinion contains indications relating to the following items:    Box No. 1   Basis of the opinion	G06F 17/00(2006.01)i	r both national classificat	non and tre	
Box No. 1 Basis of the opinion Box No. 11 Priority Box No. 11 Box No. 11 Priority Box No. 1V Lack of unity of invention  Box No. 1V Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application		٧		
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the international Preliminary Examining Authority (PIEA) except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the international Bureau under Rule 66. [big(b) that written opinions of this International Searching Authority will not be so considered.  If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of form PCI/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.  For further options, see Form PCI/ISA/220.	Box No. 1 Basis of the opin Box No. 11 Priority Box No. 11 Priority Box No. 11 Non-establishm Box No. 1V Lack of unity of characteristic properties of the control of the characteristic properties of	ent of opinion with regard  f invention nent under Rule 43bis.1(a) lamations supporting such ins cited in the international applic ions on the international applic ions on the international in ury examination is made, it unthority ("IPEA") except the chosen IPEA has notif a Authority will not be so- onsidered to be a written o ppropriate, with amendme priration of 22 months fron //220.	(i) with regard to not a statement cation application will be contact that this does not applicate the thermal considered.	onsidered to be a written opinion of the ply where the applicant to those an Authority Bureau under Rule 6d. biosely that written opinion of the ply where the applicant to the state of a positive to the state of a positive from the data of a state of a

Name and mailing address of the ISA/KR Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Date of completion of this opinion Authorized officer

27 NOVEMBER 2007 (27.11.2007) YU, Jin Tae

Telephone No.82-42-481-8547



Facsimile No. 82-42-472-7140

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US2007/012573

	1 01/05200//0123/3
Box No. I Basis of this opinion	
With regard to the language, this opinion has been established on the basis of:	
the international application in the language in which it was filed	
a translation of the international application into translation furnished for the purposes of international search (Rules 12.3(a)	, which is the language of a
<ol> <li>This opinion has been established taking into account the rectification of an obvious to this Authority under Rule 91 (Rule 43bis, 1(a))</li> </ol>	s mistake authorized by or notified
<ol><li>With regard to any nucleotide and/or amino acid sequence disclosed in the internat established on the basis of:</li></ol>	ional application, this opinion has been
a. type of material	
a sequence listing table(s) related to the sequence listing	
b. format of material	
on paper	
in electronic form	
c. time of filing/furnishing	
contained in the international application as filed.  filed together with the international application in electronic form.	
furnished subsequently to this Authority for the purposes of search.	
filed or furnished, the required statements that the information in the subsequent or ad	ditional conies is identical to that
in the application as filed or does not go beyond the application as filed, as appropriate	, were furnished.
5. Additional comments:	
	1

#### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2007/012573

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement		
Novelty (N)	Claims 1 - 20	Y)
	Claims None	NO
Inventive step (IS)	Claims None	YE
	Claims 1 - 20	NO.
Industrial applicability (IA)	Claims 1 - 20	YE
	Claims None	NO.

#### 2. Citations and explanations:

Reference is made to the following documents:

- D1: US 5461708 A (KAHN, P. R.) 24 October 1995
- D2: US 5581677 A (MYERS, B. A. et al.) 3 December 1996
- D1 discloses a system and method for determining the level of complexity present in a user's data and for automatically selecting a preferred graph type based on that determined complexity. The system includes a preferred interface for receiving selections from the user indicating an information set to visualize graphically.
- D2 discloses a system and method to automatically produce a display chart from example graphics and data values. A data value is associated with at lest one of the graphical elements, and a list of heuristics are applied to determine the visualization characteristics for the graphical elements. The display chart is produced incorporating the visualization characteristics.
- 1. Novelty
- 1.1 Claims 1-5
- Claim 1 of the present invention relates to a method for formatting chart, comprising: receiving a standard chart, providing a plurality of chart elements, modifying the standard chart, and displaying the modified chart.
- D1, which is regarded as the closest prior art to the subject matter of claim 1, discloses a method for automatically formatting a graph based on the contents and layout of user-selected information. But, D1 does not disclose the step of providing a plurality of chart elements pictorially, wherein each of the plurality of chart elements represents a chart modification for use in changing the standard chart. As the step of providing a plurality of chart elements is not disclosed in D1, the method of claim 1 is not anticipated by D1. Therefore, claim 1 seems to be novel and meets the requirements of PCT Article 33(2).

(Continued on the Supplemental Sheet.)

#### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

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#### Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

Box V.

Claims 2-5 are dependent on claim 1, and consequently they are also considered to be novel and meet the requirements of PCT Article 33(2).

#### 1.2 Claims 6-8

Claim 6 relates to a system for modifying a chart, the system comprising: a memory storage, a processing unit for modifying the standard chart based on a received input, and a display device.

D1, which is regarded as the closest prior art to the subject matter of claim 6, discloses a system for automatically formatting a graph, comprising: a processor and a memory, a screen device, an input device, a means for automatically selecting different graph types, and means for plotting the information as a graph. But, D1 does not disclose a processing unit for providing a plurality of chart elements pictorially. As the processing unit for providing a plurality of chart elements is not disclosed in D1, the system of claim 6 is not anticipated by D1. Therefore, claim 6 seems to be novel and meets the requirements of PCT Article 33(2).

Claims 7-8 are dependent on claim 6, and consequently they are also considered to be novel and meet the requirements of PCT Article 33(2).

### 1.3 Claims 9-20

Claim 9 relates to a computer-readable medium which stores a set of instructions which when executed performs a method for modifying a chart, the method comprising: receiving a standard chart, providing a plurality of chart elements, modifying the standard chart, and displaying the modified chart.

D1, which is regarded as the closest prior art to the subject matter of claim 9, discloses a method for automatically formatting a graph based on the contents and layout of user-selected information. But, D1 does not disclose the step of providing a plurality of chart elements pictorially. As the step of providing a plurality of chart elements is not disclosed in D1, the computer-readable medium of claim 9 is not anticipated by D1. Therefore, claim 9 seems to be novel and meets the requirements of PCT Article 33(2).

Claims 10-20 are dependent on claim 9, and consequently they are also considered to be novel and meet the requirements of PCT Article 33(2).

(Continued on the Supplemental Sheet.)

#### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US2007/012573

#### Supplemental Box

In case the space in any of the preceding boxes is not sufficient,

Box V

2. Inventive Step

#### 2.1 Claims 1-5

Claim 1 of the present invention relates to a method for formatting chart, comprising: receiving a standard chart, providing a plurality of chart elements, modifying the standard chart, and displaying the modified chart.

D1, which is regarded as the closest prior art to the subject matter of claim 1, discloses a method for automatically formatting a graph based on the contents and layout of user-selected information. The subject matter of claim 1 differs from that of D1 in that claim 1 has the step of providing a plurality of chart elements pictorially. But, D2 discloses a method for displaying a display chart from a drawn example graphical element embodying the visualization characteristic. It would be obvious to a person skilled in the art to combine D1 and D2 to arrive at the method of claim 1. Therefore, claim 1 lacks an inventive step and does not meet the requirements of PCT Article 33(3).

Dependent claims 2-4 relate to a method of claim 1, further comprising the steps of receiving input for selecting chart elements, querying the standard chart, and querying the modified chart. Dependent claim 5 relates to a method of claim 1, wherein the chart elements reside in a chart ribbon. However, claims 2-5 do not have any additional features more than what are described in D1 and D2. A person skilled in the art would regard it as a normal design to combine D1 and D2 to arrive at the method of claims 2-5. Therefore, claims 2-5 lack an inventive step and do not meet the requirements of PCT Article 33(3).

#### 2.2 Claims 6-8

Claim 6 relates to a system for modifying a chart, the system comprising: a memory storage, a processing unit for modifying the standard chart based on a received input, and a display device.

D1, which is regarded as the closest prior art to the subject matter of claim 6, discloses a system for automatically formatting a graph, comprising: a processor and a memory, a screen device, an input device, a means for automatically selecting different graph types, and means for plotting the information as a graph. The subject matter of claim 6 differs from that of D1 in that claim 6 has the processing unit for providing a plurality of chart elements pictorially. But, D2 discloses a programmable data processing system for displaying at display chart from a drawn example graphical element embodying the visualization characteristic. It would be obvious to a person skilled in the art oembine D1 and D2 to arrive at the system of claim 6. Therefore, claim 6 lacks an inventive step and does not meet the requirements of PCT Article 33(3).

(Continued on the Supplemental Sheet.)

#### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US2007/012573

#### Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

Box V.

Dependent claims 7-8 relate to a system of claim 6, wherein the processing unit is associated with a server and a client-side device. However, claims 7-8 do not have any additional features more than what are described in DI and D2. A person skilled in the art would regard it as a normal design to combine DI and D2 to arrive at the system of claims 7-8. Therefore, claims 7-8 lack an inventive step and do not meet the requirements of PCT Article 33(3).

#### 2.3 Claims 9-20

Claim 9 relates to a computer-readable medium which stores a set of instructions which when executed performs a method for modifying a chart, the method comprising: receiving a standard chart, providing a plurality of chart elements, modifying the standard chart, and displaying the modified chart.

D1, which is regarded as the closest prior art to the subject matter of claim 9, discloses a method for automatically formatting a graph based on the contents and layout of user-selected information. The subject matter of claim 9 differs from that of D1 in that claim 9 has the step of providing a plurality of chart elements pictorially. But, D2 discloses a method for displaying a display chart from a drawn example graphical element embodying the visualization characteristic. It would be obvious to a person skilled in the art to combine D1 and D2 to arrive at the computer-readable medium of claim 9. Therefore, claim 9 lacks an inventive step and does not meet the requirements of PCT Article 33(3).

Dependent claims 10-12 and 20 relate to a computer-readable medium of claim 9, further comprising modifying the modified chart, receiving input for selecting chart elements, querying the standard chart, and providing art objects. Dependent claims 13-19 relates to a computer-readable medium of claim 9, wherein the plurality of chart elements reside in a chart ribbon, displays a current state of the standard chart, and displays a current state of the modified chart. However, claims 10-20 do not have any additional features more than what are described in D1 and D2. A person skilled in the art would regard it as a normal design to combine D1 and D2 to arrive at the method of claims 10-20. Therefore, claims 10-20 lack an inventive step and do not meet the requirements of PCT Article 33(3).

#### 3. Industrial Applicability

There is no reason to negate the industrial applicability of this invention. Consequently, claims 1 to 20 appear to meet the requirements of PCT Article 33(4).

# PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		
315650.02 WO	FOR FURTHER S ACTION as well as,	ce Form PCT/ISA/220 where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US2007/012573	25 MAY 2007 (25.05.2007)	01 JUNE 2006 (01.06.2006)
Applicant MICROSOFT CORPORATION		(**************************************
to Attack 18. A copy is being transmitted to the		nd is transmitted to the applicant according
This international search report consists of a to	otal of3 sheets.  py of each prior art document cited in this report.	
the international application at translation of the international translation of the international translation it is an international search report a sutherized by or notified to this.  C. With regard to any nucleotide at 2.  Certain claims were found uns 3.  Unity of invention is lacking (S 4. With regard to the title,   X the text is approved as submitted	he purposes of international search (Rules 12.3, dans been established taking into account the rect Authority under Rule 91 (Rule 43.66/s(n)), nnd/or amino acid sequence disclosed in the inte earchable (See Box No. II) see Box No. III)	, which is the language of a and 23.1(b)) iffcation of an obvious mistake
5. With regard to the abstract,  the text is approved as submitted the text has been established, accomay, within one month from the decrease.  a. the figure of the drawings,  a. the figure of the drawings to be publish  because the applicant failed because this figure better chance.  b. onco of the figure is to be publish	ording to Rule 38.2, by this Authority as it apper late of mailing of this international search report, hed with the abstract is Figure No3 ut. to suggest a figure. practorizes the invention.	rs in Box No, IV. The applicant submit comments to this Authority.

Form PCT/ISA/210 (first sheet) (April 2007)

International application No. PCT/US2007/012573

#### CLASSIFICATION OF SUBJECT MATTER

G06F 17/00(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 8 G06F 17/00, G06F 15/62

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Utility models and applications for Utility Models since 1975

Japanese Utility models and applications for Utility Models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) eKIPASS(KIPO) "chart, graph, customization, and conversion"

#### C. DOCUMENTS CONSIDERED TO BE RELEVANT

ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	US 5461708 A (KAHN, P. R.) 24 October 1995 See the abstract; figures 1A-1D; column 10, line 13 - column 11, line 35; claims 1-40	1 - 20
Y	US 5581677 A (MYERS, B. A. et al.) 3 December 1996 See the abstract; figure 9; column 11, line 24 - column 13, line 41; claims 1-27	1 - 20
Α	US 5414809 A (HOGAN, P. M. et al.) 9 May 1995 See the abstract; figure 12; column 8, line 57 - column 10, line 33; claims 1-20	1 - 20
A	US 6188403 B1 (SACERDOTI, E. D. et al.) 13 February 2001 See the abstract; figure 3; column 5, line 46 - column 6, line 32; claims 1-8	1 - 20

Further documents are listed in the continuation of Box C.

Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is

cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other

"P" document published prior to the international filing date but later than the priority date claimed

Date of the actual completion of the international search

27 NOVEMBER 2007 (27.11.2007)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

See patent family annex.

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of mailing of the international search report

27 NOVEMBER 2007 (27.11.2007)

Authorized officer

YU. Jin Tae

Telephone No. 82-42-481-8542



# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/US2007/012573

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US05461708A	24.10.1995	US5581678A	03.12.1996
US05581677A	03.12.1996	None	
US05414809A	09.05.1995	JP07134765A	23.05.1995
US0618840381	13.02.2001	AU199859155A1 EP01038270A1 US62225408A W09927495A1	15.06.1999 27.09.2000 24.04.2001 03.06.1999